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INL Researcher Receives Heat Transfer Memorial Award

IDAHO FALLS -- Chang H. Oh, a distinguished engineer at Idaho National Laboratory, has been named the 2012 recipient of the American Society of Mechanical Engineers (ASME) Heat Transfer Memorial Award in the art of heat transfer category.

The award is presented to individuals who have made outstanding contributions to the field of heat transfer through teaching, research, practice and design, or a combination of such activities. Each award is based on achievement through publications, patents or inventions in an area of heat transfer or through the application of science or art of heat transfer.

Oh received the award for his "seminal and sustained contributions to thermal engineering, particularly his pioneering achievements in modeling thermal-hydraulic behavior, accident mitigation methods and numerical tools for nuclear reactor systems which are designed to couple to other industry process applications." The award will be presented in November at the ASME 2012 International Mechanical Engineering Congress & Exposition (IMECE) in Houston.

His research career spans 40 years in thermal and fluid science including the last 27 years at INL.

"This is a much deserved award, recognizing Oh's outstanding research career," said Kemal Pasamehmetoglu, INL associate laboratory director for Nuclear Science and Technology. "This is one more example of why INL is recognized as the national nuclear laboratory for the U.S. Department of Energy."

Oh's research interests include multiphase thermo-fluid systems, computational methods and simulation, heat transfer in phase change and many engineering systems, and thermal hydraulics of nuclear systems and safety. His recent research has been focused on thermal hydraulics and computer code development on next-generation nuclear systems.

He is widely recognized for his pioneering research on safety analysis of air ingress using computational fluid dynamics methods in the high temperature gas-cooled nuclear reactor. He is the author or co-author of over 150 peer-reviewed publications and technical reports. He has received two patents and has two other patents pending.

In 2011, Oh was awarded the INL Laboratory Director Award for Exceptional Engineering Achievement. The award recognized his major national and international contributions in the engineering field. Oh holds a doctorate in chemical engineering from Washington State University.

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